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PageCluster: Mining conceptual link hierarchies from Web log files for adaptive Web





site navigation

Jianhan Zhu, Jun Hong, John G. Hughes

May 2004 ACM Transactions on Internet Technology (TOIT), Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(280.84 KB)

Additional Information: full citation, abstract, references, citings, index

User traversals on hyperlinks between Web pages can reveal semantic relationships between these pages. We use user traversals on hyperlinks as weights to measure semantic relationships between Web pages. On the basis of these weights, we propose a novel method to put Web pages on a Web site onto different conceptual levels in a link hierarchy. We develop a clustering algorithm called PageCluster, which clusters conceptually-related pages on each conceptual level of the link hierarchy based on th ...

Keywords: Link hierarchies, Web site navigation, bibliographic analysis, clustering, conceptual link hierarchies, link similarity

² Visualizing digital library search results with categorical and hierarchical axes



Ben Shneiderman, David Feldman, Anne Rose, Xavier Ferré Grau June 2000 Proceedings of the fifth ACM conference on Digital libraries DL '00

Publisher: ACM Press

Full text available: pdf(682.87 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Digital library search results are usually shown as a textual list, with 10-20 items per page. Viewing several thousand search results at once on a two-dimensional display with continuous variables is a promising alternative. Since these displays can overwhelm some users, we created a simplified two-dimensional display that uses categorical and hierarchical axes, called hieraxes. Users appreciate the meaningful and limited number of terms on each hieraxis. At each grid point ...

Keywords: categorical axes, digital libraries, graphical user interfaces, hierarchy, hieraxes, information visualization

Web personalization: Web personalization integrating content semantics and





navigational patterns

Magdalini Eirinaki, Charalampos Lampos, Stratos Paulakis, Michalis Vazirgiannis November 2004 Proceedings of the 6th annual ACM international workshop on Web information and data management WIDM '04

Publisher: ACM Press

Full text available: pdf(502.59 KB)

Additional Information: full citation, abstract, references, citings, index terms

The amounts of information residing on web sites make users' navigation a hard task. To address this problem, web sites provide recommendations to the end users, based on similar users' navigational patterns mined from past visits. In this paper we introduce a recommendation method, which integrates usage data recorded in web logs, and the conceptual relationships between web documents. In the proposed framework, the usageoriented URI representation of web pages and users' behavior is augmen ...

Keywords: concept hierarchies, semantic web mining, semantic web personalization, web content semantics

Description and Analysis: Using web structure for classifying and describing web





pages

Eric J. Glover, Kostas Tsioutsiouliklis, Steve Lawrence, David M. Pennock, Gary W. Flake May 2002 Proceedings of the 11th international conference on World Wide Web WWW '02

Publisher: ACM Press

Full text available: pdf(136.12 KB)

Additional Information: full citation, abstract, references, citings, index

The structure of the web is increasingly being used to improve organization, search, and analysis of information on the web. For example, Google uses the text in citing documents (documents that link to the target document) for search. We analyze the relative utility of document text, and the text in citing documents near the citation, for classification and description. Results show that the text in citing documents, when available, often has greater discriminative and descriptive power than th ...

Keywords: SVM, anchortext, classification, cluster naming, entropy based feature extraction, evaluation, web directory, web structure

From methods to design: Developing CSCW tools for idea finding -: empirical results





and implications for design

Thorsten Prante, Carsten Magerkurth, Norbert Streitz

November 2002 Proceedings of the 2002 ACM conference on Computer supported cooperative work CSCW '02

Publisher: ACM Press

Full text available: pdf(386.21 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we first describe a formative empirical study to inform the design of CSCW tools to support idea finding in co-located groups. Groups of students worked on creative problems with mapping and whiteboard tools in different work modes. Concluding from the results of the study, requirements are derived. A suite of tools that are informed by these requirements is presented along with typical scenarios of their usage. The suite consists of three software components covering a Mind-Mappi ...

Keywords: co-located groups, computer-supported cooperative work, creativity, formative evaluation, human-computer interaction, idea finding, large displays, mindmapping, personal digital assistants, production blocking, tool-suite

classification from semantics to data-driven taxonomy

6 Research track papers: Acclimatizing taxonomic semantics for hierarchical content



Lei Tang, Jianping Zhang, Huan Liu

August 2006 Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06

Publisher: ACM Press

Full text available: pdf(910.76 KB) Additional Information: full citation, abstract, references, index terms

Hierarchical models have been shown to be effective in content classification. However, we observe through empirical study that the performance of a hierarchical model varies with given taxonomies; even a semantically sound taxonomy has potential to change its structure for better classification. By scrutinizing typical cases, we elucidate why a given semantics-based hierarchy does not work well in content classification, and how it could be improved for accurate hierarchical classification. Wit ...

Keywords: hierarchical classification, hierarchical modeling, taxonomy adjustment, text classification

7 Cat-a-Cone: an interactive interface for specifying searches and viewing retrieval



results using a large category hierarchy Marti A. Hearst, Chandu Karadi

July 1997 ACM SIGIR Forum, Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '97, Volume 31 Issue SI

Publisher: ACM Press

Full text available: pdf(3.95 MB) Additional Information: full citation, references, citings, index terms

8 HyPursuit: a hierarchical network search engine that exploits content-link hypertext





Ron Weiss, Bienvenido Vélez, Mark A. Sheldon

March 1996 Proceedings of the the seventh ACM conference on Hypertext **HYPERTEXT '96**

Publisher: ACM Press

Full text available: pdf(2.00 MB) Additional Information: full citation, references, citings, index terms

Navigation issues in hypertext: documenting complex hierarchies with HTML frames



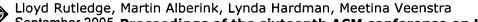
Michael Priestley

October 1997 Proceedings of the 15th annual international conference on Computer documentation SIGDOC '97

Publisher: ACM Press

Full text available: pdf(1.35 MB) Additional Information: full citation, references, citings, index terms

10 Posters: Generalized semantics-to-document derivation



September 2005 Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05

Publisher: ACM Press

Full text available: Top pdf(128.85 KB) Additional Information: full citation, abstract, references, index terms

This poster presents a general clustering-based algorithm for deriving presentation structure from semantic structure. Domain-independent presentation generation results from this algorithm.

Keywords: clustering, document structure, hypermedia, presentation generation, semantics, style

11 Industrial and practical experience track paper session 1: A personalized search





engine based on web-snippet hierarchical clustering Paolo Ferragina, Antonio Gulli

May 2005 Special interest tracks and posters of the 14th international conference on World Wide Web WWW '05

Publisher: ACM Press

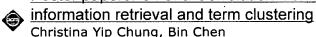
Full text available: pdf(514.22 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

In this paper we propose a hierarchical clustering engine, called snaket, that is able to organize on-the-fly the search results drawn from 16 commodity search engines into a hierarchy of labeled folders. The hierarchy offers a complementary view to the flat-ranked list of results returned by current search engines. Users can navigate through the hierarchy driven by their search needs. This is especially useful for informative, polysemous and poor queries. SnakeT is the first complete an ...

Keywords: information extraction, new search applications and interfaces, personalized web ranking, search engines, web snippets clustering

12 Poster papers: CVS: a Correlation-Verification based Smoothing technique on



July 2002 Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02

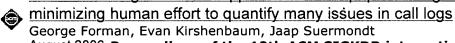
Publisher: ACM Press

Full text available: pdf(634.38 KB) Additional Information: full citation, abstract, references, index terms

As information volume in enterprise systems and in the Web grows rapidly, how to accurately retrieve information is an important research area. Several corpus based smoothing techniques have been proposed to address the data sparsity and synonym problems faced by information retrieval systems. Such smoothing techniques are often unable to discover and utilize the correlations among terms. We propose CVS, a Correlation-Verification based Smoothing method, that considers co-occurrence information i ...

Keywords: information retrieval, query expansion, smoothing, term clustering, text mining

13 Industrial and government applications track papers: Pragmatic text mining:



August 2006 Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(852.08 KB)

terms

We discuss our experiences in analyzing customer-support issues from the unstructured free-text fields of technical-support call logs. The identification of frequent issues and their accurate quantification is essential in order to track aggregate costs broken down by issue type, to appropriately target engineering resources, and to provide the best diagnosis, support and documentation for most common issues. We present a new set of techniques for doing this efficiently on an industrial scale, w

Keywords: applications, log processing, quantification, supervised machine learning, text classification, text mining

14 Clustering: Incremental hierarchical clustering of text documents

Nachiketa Sahoo, Jamie Callan, Ramayya Krishnan, George Duncan, Rema Padman November 2006 Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06

Publisher: ACM Press

Full text available: pdf(235.40 KB) Additional Information: full citation, abstract, references, index terms

Incremental hierarchical text document clustering algorithms are important in organizing documents generated from streaming on-line sources, such as, Newswire and Blogs. However, this is a relatively unexplored area in the text document clustering literature. Popular incremental hierarchical clustering algorithms, namely Cobweb and Classit, have not been widely used with text document data. We discuss why, in the current form, these algorithms are not suitable for text clusteri ...

Keywords: hierarchical clustering, incremental clustering, text clustering

15 Fast detection of communication patterns in distributed executions





Publisher: IBM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(4.21 MB)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

16 Deriving concept hierarchies from text



Mark Sanderson, Bruce Croft

August 1999 Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '99

Publisher: ACM Press

Full text available: pdf(100.05 KB) Additional Information: full citation, references, citings, index terms

Keywords: concept hierarchy, multi-document summary, subsumption, term cooccurence



Information access and retrieval: Multiple related document summary and navigation using concept hierarchies for mobile clients

D. L. Chan, R. W. P. Luk, W. K. Mak, H. V. Leong, E. K. S. Ho, Q. Lu

March 2002 Proceedings of the 2002 ACM symposium on Applied computing SAC '02

Publisher: ACM Press

Full text available: pdf(660.36 KB)

Additional Information: full citation, abstract, references, citings, index terms

Mobile clients have limited display and navigation capabilities. To browse a set of documents, an intuitive method is to navigate through concept hierarchies. To reduce semantic loading for each term that represents the concepts and the cognitive loading of users due to the limited display, similar documents are grouped together before concept hierarchies are constructed for each document group. Since the concept hierarchies only represent the salient concepts in the documents, term extraction i ...

Keywords: browsing, concept hierarchy, information access, mobile agent, mobile computing, navigation, summarization

18 The theory of parsing, translation, and compiling

Alfred V. Aho, Jeffrey D. Ullman January 1972 Book

Publisher: Prentice-Hall, Inc.

Full text available: pdf(98.28 MB)

Additional Information: full citation, abstract, references, citings, index

<u>terms</u>

From volume 1 Preface (See Front Matter for full Preface)

This book is intended for a one or two semester course in compiling theory at the senior or graduate level. It is a theoretically oriented treatment of a practical subject. Our motivation for making it so is threefold.

(1) In an area as rapidly changing as Computer Science, sound pedagogy demands that courses emphasize ideas, rather than implementation details. It is our hope that the algorithms and concepts presen ...

19 World Wide Web: Using Markov models for web site link prediction

Jianhan Zhu, Jun Hong, John G. Hughes

June 2002 Proceedings of the thirteenth ACM conference on Hypertext and hypermedia HYPERTEXT '02

Publisher: ACM Press

Full text available: pdf(107.35 KB)

Additional Information: full citation, abstract, references, citings, index terms

Markov models have been extensively used to model Web users' navigation behaviors on Web sites. The link structure of a Web site can be seen as a citation network. By applying bibliographic co-citation and coupling analysis to a Markov model constructed from a Web log file on a Web site, we propose a clustering algorithm called CitationCluster to cluster conceptually related pages. The clustering results are used to construct a conceptual hierarchy of the Web site. Markov model based link predic ...

Keywords: Markov models, hierarchy, link prediction

Type-inheritance combinatory categorial grammar
John Beavers



August 2004 Proceedings of the 20th international conference on Computational Linguistics COLING '04

Publisher: Association for Computational Linguistics

Full text available: pdf(117.82 KB) Additional Information: full citation, abstract, references

In this paper I outline Type-inheritance Combinatory Categorial Grammar (TCCG), an implemented feature structure based CCG fragment of English. TCCG combines the fully lexical nature of CCG with the type-inheritance hierarchies and complex feature structures of Headdriven Phrase Structure Grammars (HPSG). The result is a CCG/HPSG hybrid that combines linguistic generalizations previously only statable in one theory or the other, even extending the set of statable generalizations to those not eas ...

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